Jun Ota

List of Publications by Year in descending order

336 papers	2,300 citations	361296 20 h-index	395590 33 g-index
344 all docs	344 docs citations	344 times ranked	1627 citing authors

#	Article	IF	Citations
1	Motion planning of multiple mobile robots for cooperative manipulation and transportation. IEEE Transactions on Automation Science and Engineering, 2003, 19, 223-237.	2.4	144
2	Human upright posture control models based on multisensory inputs; in fast and slow dynamics. Neuroscience Research, 2016, 104, 96-104.	1.0	130
3	Multi-agent robot systems as distributed autonomous systems. Advanced Engineering Informatics, 2006, 20, 59-70.	4.0	126
4	Multirobot motion coordination in space and time. Robotics and Autonomous Systems, 1998, 25, 219-229.	3.0	69
5	Predicting anxiety state using smartphone-based passive sensing. Journal of Biomedical Informatics, 2019, 93, 103151.	2.5	51
6	Online rescheduling of multiple picking agents for warehouse management. Robotics and Computer-Integrated Manufacturing, 2011, 27, 62-71.	6.1	38
7	Hybrid Design Methodology and Cost-Effectiveness Evaluation of AGV Transportation Systems. IEEE Transactions on Automation Science and Engineering, 2007, 4, 360-372.	3.4	37
8	Kinematic Control With Singularity Avoidance for Teaching-Playback Robot Manipulator System. IEEE Transactions on Automation Science and Engineering, 2016, 13, 729-742.	3.4	37
9	Motion Planning of Multiple Mobile Robots Using Virtual Impedance. Journal of Robotics and Mechatronics, 1996, 8, 67-74.	0.5	31
10	Motion Control of Self-Moving Trays for Human Supporting Production Cell â€œAttentive Workbenchâ€• , 0, , .		30
11	Self-calibration of environmental camera for mobile robot navigation. Robotics and Autonomous Systems, 2007, 55, 177-190.	3.0	30
12	Order scheduling of multiple stacker cranes on common rails in an automated storage/retrieval system. International Journal of Production Research, 2014, 52, 1171-1187.	4.9	30
13	Transferring Control by Cooperation of Two Mobile Robots.. Journal of the Robotics Society of Japan, 1996, 14, 263-270.	0.0	28
14	Motion Planning of Multiple Mobile Robots Using Virtual Impedance.. Journal of the Robotics Society of Japan, 1993, 11, 1039-1046.	0.0	27
15	Robust multi-robot coordination in pick-and-place tasks based on part-dispatching rules. Robotics and Autonomous Systems, 2015, 64, 70-83.	3.0	26
16	Generation of the Human Biped Stance by a Neural Controller Able to Compensate Neurological Time Delay. PLoS ONE, 2016, 11, e0163212.	1.1	25
17	Hereditary sensory and autonomic neuropathy types 4 and 5: Review and proposal of a new rehabilitation method. Neuroscience Research, 2016, 104, 105-111.	1.0	24
18	Peg-in-Hole Assembly Based on Two-phase Scheme and F/T Sensor for Dual-arm Robot. Sensors, 2017, 17, 2004.	2.1	24

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19	Iterative Transportation Planning of Multiple Objects by Cooperative Mobile Robots. , 1996, , 171-182.		24
20	Coordinated motion control of a robot arm and a positioning table with arrangement of multiple goals. , 2008, , .		23
21	Impact of Using a Robot Patient for Nursing Skill Training in Patient Transfer. IEEE Transactions on Learning Technologies, 2017, 10, 355-366.	2.2	22
22	Dwarf intelligence â€" A large object carried by seven dwarves. Robotics and Autonomous Systems, 1996, 18, 149-155.	3.0	21
23	Multirobot Coordination for Flexible Batch Manufacturing Systems Experiencing Bottlenecks. IEEE Transactions on Automation Science and Engineering, 2010, 7, 887-901.	3.4	21
24	Design and evaluation of robot patient for nursing skill training in patient transfer. Advanced Robotics, 2015, 29, 1269-1285.	1.1	21
25	Multiple mobile robot surveillance in unknown environments. Advanced Robotics, 2007, 21, 729-749.	1.1	20
26	Estimation of handgrip force using frequency-band technique during fatiguing muscle contraction. Journal of Electromyography and Kinesiology, 2010, 20, 888-895.	0.7	20
27	Self-Help Training System for Nursing Students to Learn Patient Transfer Skills. IEEE Transactions on Learning Technologies, 2014, 7, 319-332.	2.2	20
28	Estimation of Handgrip Force from SEMG Based on Wavelet Scale Selection. Sensors, 2018, 18, 663.	2.1	19
29	Rearrangement Planning of Multiple Movable Objects by a Mobile Robot. Advanced Robotics, 2009, 23, 1-18.	1.1	17
30	Quantitative estimation of muscle fatigue on cyclic handgrip tasks. International Journal of Industrial Ergonomics, 2012, 42, 103-112.	1.5	17
31	Realization of heavy object transportation by mobile robots using handcarts and outrigger. ROBOMECH Journal, 2016, 3, .	0.9	17
32	Postural control of a musculoskeletal model against multidirectional support surface translations. PLoS ONE, 2019, 14, e0212613.	1.1	17
33	Establishment of Social Status without Individual Discrimination in the Cricket. Advanced Robotics, 2009, 23, 563-578.	1.1	16
34	Vision-guided peg-in-hole assembly by Baxter robot. Advances in Mechanical Engineering, 2017, 9, 168781401774807.	0.8	16
35	Joint torque estimation for the human arm from sEMG using backpropagation neural networks and autoencoders. Biomedical Signal Processing and Control, 2020, 62, 102051.	3.5	16
36	Kinematic Synthesis of a Serial Robotic Manipulator by Using Generalized Differential Inverse Kinematics. IEEE Transactions on Robotics, 2019, 35, 1047-1054.	7.3	15

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37	Local communication of multiple mobile robots: Design of optimal communication area for cooperative tasks. Journal of Field Robotics, 1998, 15, 407-419.	0.7	14
38	Transfer control of a large object by a group of mobile robots. Robotics and Autonomous Systems, 1999, 28, 271-280.	3.0	14
39	A Novel Cable-Driven 7-DOF Anthropomorphic Manipulator. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2174-2185.	3.7	14
40	MOTION PLANNING OF MULTIPLE MOBILE ROBOTS USING DYNAMIC GROUPS. World Scientific Series in Robotics and Intelligent Systems, 1994, , 57-73.	0.1	14
41	Transient Velocity Distributions for the Supercritical Carbon Dioxide Forced Convection Heat Transfer. Journal of Nuclear Science and Technology, 2003, 40, 763-767.	0.7	13
42	Selection of manipulator system for multiple-goal task by evaluating task completion time and cost with computational time constraints. Advanced Robotics, 2013, 27, 233-245.	1.1	13
43	Automatic Evaluation of Trainee Nurses' Patient Transfer Skills Using Multiple Kinect Sensors. IEICE Transactions on Information and Systems, 2014, E97.D, 107-118.	0.4	13
44	Robot Patient Design to Simulate Various Patients for Transfer Training. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2079-2090.	3.7	13
45	Multiple Mobile Robot Exploration and Patrol Strategy Using a Self-Organizing Planner Based on a Reaction-Diffusion Equation on a Graph. Journal of Robotics and Mechatronics, 2008, 20, 24-37.	0.5	13
46	Practical Point-to-Point Multiple-Goal Task Realization in a Robot Arm with a Rotating Table. Advanced Robotics, 2011, 25, 717-738.	1.1	12
47	A neuromodulation model of behavior selection in the fighting behavior of male crickets. Robotics and Autonomous Systems, 2012, 60, 707-713.	3.0	12
48	A postural control model incorporating multisensory inputs for maintaining a musculoskeletal model in a stance posture. Advanced Robotics, 2017, 31, 55-67.	1.1	12
49	Increase in muscle tone promotes the use of ankle strategies during perturbed stance. Gait and Posture, 2021, 90, 67-72.	0.6	12
50	Automatic modeling of user's real world activities from the web for semantic IR. , 2010, , .		11
51	Human-tracking system using quadrotors and multiple environmental cameras for face-tracking application. International Journal of Advanced Robotic Systems, 2017, 14, 172988141772735.	1.3	11
52	Jet-HR1: Two-dimensional bipedal robot step over large obstacle based on a ducted-fan propulsion system. , 2017, , .		11
53	Analysis of firefighting skill with a teleoperated robot. ROBOMECH Journal, 2020, 7, .	0.9	11
54	Development and Validation of Robot Patient Equipped with an Inertial Measurement Unit and Angular Position Sensors to Evaluate Transfer Skills of Nurses. International Journal of Social Robotics, 2021, 13, 899-917.	3.1	11

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55	Integrated Design for Automated Guided Vehicle Systems Using Cooperative Co-evolution. Advanced Robotics, 2010, 24, 25-45.	1.1	10
56	Iterative Transportation Planning of Multiple Objects by Cooperative Mobile Robots.. Journal of the Robotics Society of Japan, 1998, 16, 499-507.	0.0	10
57	User-centered profile representation for recommendations across multiple content domains. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2011, 15, 1-14.	0.7	9
58	Fast grasping of unknown objects through automatic determination of the required number of mobile robots. Advanced Robotics, 2013, 27, 445-458.	1.1	9
59	Foraging Task of Multiple Mobile Robots in a Dynamic Environment Using Adaptive Behavior in Crickets. Journal of Robotics and Mechatronics, 2007, 19, 466-473.	0.5	9
60	Scheduling multiple agents for picking products in a warehouse. , 0, , .		8
61	Improved design methodology for an existing automated transportation system with automated guided vehicles in a seaport container terminal. Advanced Robotics, 2007, 21, 371-394.	1.1	8
62	Dynamic scheduling based inpatient nursing support. , 2009, , .		8
63	Motion Planning of Two Stacker Cranes in a Large-Scale Automated Storage/Retrieval System. Journal of Mechanical Systems for Transportation and Logistics, 2012, 5, 71-85.	0.2	8
64	Automatic task-based profile representation for content-based recommendation. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2012, 16, 247-260.	0.7	8
65	Modeling and designing aircraft taxiing patterns for a large airport. Advanced Robotics, 2013, 27, 1059-1072.	1.1	8
66	Body representation in the brain. Neuroscience Research, 2016, 104, 1-3.	1.0	8
67	Physiological Stress Level Estimation Based on Smartphone Logs. , 2018, , .		8
68	Translational Acceleration, Rotational Speed, and Joint Angle of Patients Related to Correct/Incorrect Methods of Transfer Skills by Nurses. Sensors, 2018, 18, 2975.	2.1	8
69	Efficient Throughput Analysis of Production Lines Based on Modular Queues. IEEE Access, 2019, 7, 95314-95326.	2.6	8
70	A generalised makespan estimation for shop scheduling problems, using visual data and a convolutional neural network. International Journal of Computer Integrated Manufacturing, 2019, 32, 559-568.	2.9	8
71	Human position and head direction tracking in fisheye camera using randomized ferns and fisheye histograms of oriented gradients. Visual Computer, 2020, 36, 1443-1456.	2.5	8
72	An Accurate and Efficient Voting Scheme for a Maximally All-Inlier 3D Correspondence Set. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2287-2298.	9.7	8

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73	Automatic risk assessment integrated with activity segmentation in the order picking process to support health management. CIRP Annals - Manufacturing Technology, 2020, 69, 17-20.	1.7	8
74	Environmental Support Method for Mobile Manipulators Using Visual Marks with Memory Storage.. Journal of the Robotics Society of Japan, 1999, 17, 670-676.	0.0	8
75	Motion skills in multiple mobile robot system. Robotics and Autonomous Systems, 1996, 19, 57-65.	3.0	7
76	Simultaneous measurement of force and muscle fatigue using frequency-band wavelet analysis. , 2008, 2008, 5045-8.		7
77	Compact design of work cell with robot arm and positioning table under a task completion time constraint. , 2009, , .		7
78	Multiple Robot Rearrangement Planning Using a Territorial Approach and an Extended Project Scheduling Problem Solver. Advanced Robotics, 2010, 24, 103-122.	1.1	7
79	A strategy for fast grasping of unknown objects using partial shape information from range sensors. Advanced Robotics, 2013, 27, 581-595.	1.1	7
80	Modal Planning for Cooperative Non-Prehensile Manipulation by Mobile Robots. Applied Sciences (Switzerland), 2019, 9, 462.	1.3	7
81	Development of an SEMG-Handgrip Force Model Based on Cross Model Selection. IEEE Sensors Journal, 2019, 19, 1829-1838.	2.4	7
82	Investigation of the effect of tonus on the change in postural control strategy using musculoskeletal simulation. Gait and Posture, 2020, 76, 298-304.	0.6	7
83	Motion Planning Method for Two Stacker Cranes in an Automated Storage and Retrieval System. International Journal of Automation Technology, 2012, 6, 792-801.	0.5	7
84	A Novel Algorithm for Continuous Steel Casting Scheduling with Focus on Quality Property Constraint and Slab Width Maximization. International Journal of Automation Technology, 2015, 9, 235-247.	0.5	7
85	Optimal Design, Evaluation, and Analysis of AGV Transportation Systems Based on Various Transportation Demands. , 0, , .		6
86	Prediction of Target Object Based on Human Hand Movement for Handing-Over between Human and Self-Moving Trays. , 2006, , .		6
87	A fast rescheduling method in semiconductor manufacturing allowing for tardiness and scheduling stability. , 2006, , .		6
88	Reasoning of abstract motion of a target object through task order with natural language â€" pre-knowledge of object-handling-task programming for a service robot. Advanced Robotics, 2006, 20, 391-412.	1.1	6
89	A practical and integrated method to optimize a manipulator-based inspection system. , 2007, , .		6
90	Simulated annealing algorithm for scheduling problem in daily nursing cares. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	6

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91	Rearrangement Task by Multiple Mobile Robots With Efficient Calculation of Task Constraints. Advanced Robotics, 2008, 22, 191-213.	1.1	6
92	Design of the end-effector tool attachment for robot arm with multiple reconfigurable goals. , 2008, , .		6
93	Behavior control methodology for circulating robots in flexible batch manufacturing systems experiencing bottlenecks. , 2009, , .		6
94	Autonomous cruise control of circulating multi-robot for congestion. , 2010, , .		6
95	Manipulation of an irregularly shaped object by two mobile robots. , 2010, , .		6
96	A measurement and evaluation method of a support system to teach how to improve transferring patients. , 2011, , .		6
97	Territorial and Effective Task Decomposition for Rearrangement Planning of Multiple Objects by Multiple Mobile Robots. Advanced Robotics, 2011, 25, 47-74.	1.1	6
98	Intuitive Topic Discovery by Incorporating Word-Pair's Connection Into LDA. , 2012, , .		6
99	Neural Plasticity on Body Representations: Advancing Translational Rehabilitation. Neural Plasticity, 2016, 2016, 1-2.	1.0	6
100	Jet-HR1: Stepping Posture Optimization for Bipedal Robot Over Large Ditch Based on a Ducted-fan Propulsion System. , 2018, , .		6
101	Automated Field-of-View, Illumination, and Recognition Algorithm Design of a Vision System for Pick-and-Place Considering Colour Information in Illumination and Images. Sensors, 2018, 18, 1656.	2.1	6
102	Effect of practice on similar and dissimilar skills in patient transfer through training with a robot patient. Advanced Robotics, 2019, 33, 278-292.	1.1	6
103	Motion Planning for Bandaging Task With Abnormal Posture Detection and Avoidance. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2364-2375.	3.7	6
104	Real-Time Cooperative Exploration by Reaction-Diffusion Equation on a Graph. , 2002, , 383-392.		6
105	Mobile Robot Exploration by Using Environmental Boundary Information. ISRN Robotics, 2013, 2013, 1-11.	1.3	6
106	Attentive Workbench: An Intelligent Production Cell Supporting Human Workers. , 2007, , 465-474.		6
107	Mobile Robot Navigation Using Artificial Landmarks.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2000, 66, 2239-2246.	0.2	5
108	Development of a remote fault diagnosis system applicable to autonomous mobile robots. Advanced Robotics, 2002, 16, 573-594.	1.1	5

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109	Automatic parameter identification for distributedly placed modular robots. , 0, , .		5
110	Exploration path generation for multiple mobile robots using reaction-diffusion equation on a graph. Integrated Computer-Aided Engineering, 2004, 11, 195-212.	2.5	5
111	Design of an automated transportation system in a seaport container terminal for the reliability of operating robots. , 2007, , .		5
112	Evaluation of frequency band technique in estimating muscle fatigue during dynamic contraction task. , 2009, , .		5
113	Goal state optimization algorithm considering computational resource constraints and uncertainty in task execution time. Robotics and Autonomous Systems, 2009, 57, 403-410.	3.0	5
114	Control methodology of stacker cranes for collision avoidance considering dynamics in a warehouse. , 2009, , .		5
115	Part dispatching rule-based multi-robot coordination in pick-and-place task. , 2012, , .		5
116	Posture study for self-training system of patient transfer. , 2012, , .		5
117	Analytic Flow Design Method for an Automated Distribution Center with Multiple Shipping Areas. Advanced Robotics, 2012, 26, 1229-1252.	1.1	5
118	Model of a sensoryâ€“behavioral relation mechanism for aggressive behavior in crickets. Robotics and Autonomous Systems, 2012, 60, 700-706.	3.0	5
119	Object Transportation by Two Mobile Robots with Hand Carts. International Scholarly Research Notices, 2014, 2014, 1-15.	0.9	5
120	Stance postural control of a musculoskeletal model able to compensate neurological time delay. , 2014, , .		5
121	Novel frictional-locking-mechanism for a flat belt: Theory, mechanism, and validation. Mechanism and Machine Theory, 2017, 116, 371-382.	2.7	5
122	Towards a Simplified Estimation of Muscle Activation Pattern from MRI and EMG Using Electrical Network and Graph Theory. Sensors, 2020, 20, 724.	2.1	5
123	Throughput analysis of conveyor systems involving multiple materials based on capability decomposition. Computers in Industry, 2021, 132, 103526.	5.7	5
124	Multi-agent Robot Systems. Journal of the Robotics Society of Japan, 2002, 20, 487-490.	0.0	5
125	Motion Recognition using DP Matching.. Journal of the Japan Society for Precision Engineering, 1997, 63, 812-818.	0.0	5
126	Evaluation of Postural Sway in Post-stroke Patients by Dynamic Time Warping Clustering. Frontiers in Human Neuroscience, 2021, 15, 731677.	1.0	5

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127	Motion planning of multiple mobile robots by a combination of learned visibility graphs and virtual impedance. Advanced Robotics, 1995, 10, 605-620.	1.1	4
128	Realizing the exploration and rearrangement of multiple unknown objects by an actual mobile robot. Advanced Robotics, 2005, 19, 1-20.	1.1	4
129	Warehouse-design Support considering Seasonal Products. , 2006, , .		4
130	Acquisition of intermediate goals for an agent executing multiple tasks. IEEE Transactions on Robotics, 2006, 22, 1034-1040.	7.3	4
131	Implementation of Human Supporting Production System "AttentiveWorkbench". , 2006, , .		4
132	Simulated Annealing Algorithm for Daily Nursing Care Scheduling Problem. , 2007, , .		4
133	Integrated Design Methodology for an Automated Transportation System in a Seaport Terminal. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	4
134	Hybrid design for multiple-goal task realization of robot arm with rotating table. , 2009, , .		4
135	Quantitative estimation of muscle fatigue using surface electromyography during static muscle contraction. , 2009, 2009, 2975-8.		4
136	Robotic grasping based on partial shape information. , 2010, , .		4
137	Multiple-goal task realization utilizing redundant degrees of freedom of task and tool attachment optimization. , 2011, , .		4
138	Analysis of congestion of taxiing aircraft at a large airport. , 2011, , .		4
139	Realization of a Multiple Object Rearrangement Task with Two Multi-Task Functional Robots. Advanced Robotics, 2011, 25, 1365-1383.	1.1	4
140	Motion Planning for Two Robots of an Object Handling System Considering Fast Transition Between Stable States. Advanced Robotics, 2012, 26, 1291-1316.	1.1	4
141	Recognition of nursing activity with accelerometers and RFID. Kybernetes, 2013, 42, 1059-1071.	1.2	4
142	Duplication Analysis of Conversation and Its Application to Cognitive Training of Older Adults in Care Facilities. Journal of Medical Imaging and Health Informatics, 2013, 3, 615-621.	0.2	4
143	Mannequin system for the self-training of nurses in the changing of clothes. Kybernetes, 2016, 45, 839-852.	1.2	4
144	Working Environment Design for Effective Palletizing with a 6-DOF Manipulator. International Journal of Advanced Robotic Systems, 2016, 13, 68.	1.3	4

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145	3D Affine: An Embedding of Local Image Features for Viewpoint Invariance Using RGB-D Sensor Data. Sensors, 2019, 19, 291.	2.1	4
146	Buffer Allocation via Bottleneck-Based Variable Neighborhood Search. Applied Sciences (Switzerland), 2020, 10, 8569.	1.3	4
147	Indoor human face following with environmental fisheye cameras and blimp. Advanced Robotics, 2020, 34, 621-636.	1.1	4
148	Development of Robot Patient Lower Limbs to Reproduce the Sit-to-Stand Movement with Correct and Incorrect Applications of Transfer Skills by Nurses. Applied Sciences (Switzerland), 2021, 11, 2872.	1.3	4
149	Robot Patient for Nursing Self-training in Transferring Patient from Bed to Wheel Chair. Lecture Notes in Computer Science, 2014, , 361-368.	1.0	4
150	Robotics as a Tool in Fundamental Nursing Education. Lecture Notes in Computer Science, 2014, , 392-402.	1.0	4
151	Feedback-Based Self-training System of Patient Transfer. Lecture Notes in Computer Science, 2013, , 197-203.	1.0	4
152	Genetically optimizing query expansion for retrieving activities from the web. , 2012, , .		4
153	Automatic Conversion of Mechanical Engineering Drawings to CAD Data.. Journal of the Japan Society for Precision Engineering, 1994, 60, 524-529.	0.0	4
154	Target Identification Through Human Pointing Gesture Based on Human-Adaptive Approach. Journal of Robotics and Mechatronics, 2008, 20, 515-525.	0.5	4
155	Fault-Tolerant Multi-Robot Operational Strategy for Material Transport Systems Considering Maintenance Activity. Journal of Robotics and Mechatronics, 2010, 22, 485-495.	0.5	4
156	The Relationship between Nursing Studentsâ€™ Attitudes towards Learning and Effects of Self-learning System Using Kinect. Lecture Notes in Computer Science, 2013, , 111-116.	1.0	4
157	Trajectory Planning for Mobile Robots in Time-Varying Environments Considering User's Specifications.. Journal of the Robotics Society of Japan, 1994, 12, 905-910.	0.0	4
158	Teaching Tasks to Multiple Small Robots by Classifying and Splitting a Human Example. Journal of Robotics and Mechatronics, 2017, 29, 419-433.	0.5	4
159	Realization of Cooperative Transportation by Regrasping Car-like Mobile Robots.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1999, 65, 1021-1028.	0.2	3
160	Handling of Multiple Heterogeneous Objects with Marks by a Robot. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2004, 70, 766-773.	0.2	3
161	Nursing care scheduling problem: Analysis of staffing levels. , 2007, , .		3
162	Rearrangement task realization by multiple mobile robots with efficient calculation of task constraints. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	3

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163	Multiple robot rearrangement problem using an extended project-scheduling problem solver. , 2009, , .		3
164	Conceptual Warehouse Design Algorithm Using a Network Flow Model. Advanced Robotics, 2009, 23, 705-724.	1.1	3
165	Design of Redundant Degrees of Freedom in Task Realization of a Robot System with Positioning Errors of Objects. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2010, 4, 1234-1245.	0.3	3
166	Rearrangement task of multiple robots using task assignment applicable to different environments. , 2010, , .		3
167	Neural network estimation of LAL/VPC resions of silkmoth using Genetic Algorithm. , 2010, , .		3
168	Fast and automatic robotic grasping of unknown objects. , 2011, , .		3
169	Dynamic scheduling-based inpatient nursing support: applicability evaluation by laboratory experiments. International Journal of Autonomous and Adaptive Communications Systems, 2012, 5, 39.	0.2	3
170	Sweeping Task of Multiple Mobile Agents by Utilizing Behavior Selection Model with Interaction-Based Efficacy Dynamics. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2012, 78, 3028-3032.	0.2	3
171	Integrated design of multi-robot system for pick-and-place tasks. , 2013, , .		3
172	Design of Warehouse Including Temporary Storage Using Queuing Network Theory. , 2013, , .		3
173	Activity-based topic discovery. Web Intelligence and Agent Systems, 2014, 12, 193-209.	0.4	3
174	Source separation and localization of individual superficial forearm extensor muscles using high-density surface electromyography. , 2016, , .		3
175	Design of AVS/RS under group constraint. Advanced Robotics, 2016, 30, 1446-1457.	1.1	3
176	Big data in automation: Towards generalized makespan estimation in shop scheduling problems. , 2017, , .		3
177	Study of design factors for transfer-aid equipment based on caregiversâ€™ feelings. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0013-JAMDSM0013.	0.3	3
178	Queuing theory based part-flow estimation in a pick-and-place task with a multi-robot system. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0061-JAMDSM0061.	0.3	3
179	Cross-feedback with Partner Contributes to Performance Accuracy in Finger-tapping Rhythm Synchronization between One Leader and Two Followers. Scientific Reports, 2019, 9, 7800.	1.6	3
180	Characteristics of Skilled and Unskilled System Engineers in Troubleshooting for Network Systems. IEEE Access, 2020, 8, 80779-80791.	2.6	3

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181	Evaluating quiet standing posture of post-stroke patients by classifying cerebral infarction and cerebral hemorrhage patients. Advanced Robotics, 2021, 35, 878-888.	1.1	3
182	Automated Design of Image Recognition Process for Picking System. International Journal of Automation Technology, 2016, 10, 737-752.	0.5	3
183	A Design Method of Optimal Communication Area in Multiple Mobile Robot System.. Journal of the Robotics Society of Japan, 1997, 15, 394-401.	0.0	3
184	Usability Analysis of Information on Workerâ€™s Hands in Animated Assembly Manuals. International Journal of Automation Technology, 2018, 12, 524-532.	0.5	3
185	Multi-attention deep recurrent neural network for nursing action evaluation using wearable sensor. , 2020, , .		3
186	Proposal of a Neuromusculoskeletal Model Considering Muscle Tone in Human Gait. , 2021, , .		3
187	Local communication of multiple mobile robots: design of group behavior for efficient communication. Advanced Robotics, 1996, 11, 759-779.	1.1	2
188	Local Path Replanning for Unforeseen Obstacle Avoidance by Autonomous Sweeping Robots.. Journal of the Robotics Society of Japan, 1999, 17, 966-973.	0.0	2
189	Cooperative transport in an unknown environment associated with task assignment. Advanced Robotics, 2000, 14, 359-361.	1.1	2
190	Material Transport System by Cooperation of Conveyor-Loaded AGVs.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2001, 67, 1905-1911.	0.2	2
191	Hybrid power supply for mobile robots. Advanced Robotics, 2001, 15, 695-710.	1.1	2
192	Integrated design for routing and network in AGV systems using co-evolution. , 0, , .		2
193	Proposal of Artificial Mark to Measure 3D Pose by Monocular Vision. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2005, 71, 1927-1936.	0.2	2
194	Quantitative Evaluation of Human Supporting Production System "Attentive Workbench". , 2007, , .		2
195	Mixed-load transportation scheduling in a floor warehouse environment. , 2008, , .		2
196	Quantitative evaluation of physical assembly support in human supporting production system “attentive workbench”. , 2008, , .		2
197	The Relationship Between Changes in Amplitude and Instantaneous Mean Frequency at Low and High Frequency Bands During Dynamic Contraction. , 2008, , .		2
198	Feature extraction from partial shape information for fast grasping of unknown objects. , 2011, , .		2

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199	Motion planning of two stacker cranes in a large-scale automated storage/retrieval system. , 2011, , .		2
200	Real-time spacecraft actuator fault diagnosis with state-segmented particle filtering. Advanced Robotics, 2014, 28, 1265-1276.	1.1	2
201	Automated design of image recognition in capturing environment. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, S49.	0.8	2
202	Compact design of a redundant manipulator system and application to multiple-goal tasks with temporal constraint. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2017, 11, JAMDSM0012-JAMDSM0012.	0.3	2
203	Recognizing whether a person is eating alone or has company by using wearable devices. , 2017, , .		2
204	Estimation of fingertip forces using high-density surface electromyography. , 2017, , .		2
205	Mechanism allowing large-force application by a mobile robot, and development of ARODA. Robotics and Autonomous Systems, 2018, 110, 92-101.	3.0	2
206	Contact-Event-Triggered Mode Estimation for Dynamic Rigid Body Impedance-Controlled Capture. , 2019, , .		2
207	Design of Face Tracking System Using Environmental Cameras and Flying Robot for Evaluation of Health Care. Lecture Notes in Computer Science, 2016, , 264-273.	1.0	2
208	Automatically Constructing Concept Hierarchies of Health-Related Human Goals. Lecture Notes in Computer Science, 2011, , 124-135.	1.0	2
209	Modeling Weather Context Dependent Food Choice Process. Journal of Information Processing, 2018, 26, 386-395.	0.3	2
210	New research trends in artifactology. Synthesiology, 2014, 7, 211-219.	0.2	2
211	Object Manipulation of a Robot by Utilizing QR Code. Journal of the Robotics Society of Japan, 2005, 23, 678-682.	0.0	2
212	Multiscale Service Design Method and Its Application to Sustainable Service for Prevention and Recovery from Dementia. Lecture Notes in Computer Science, 2011, , 321-330.	1.0	2
213	Teaching Mobile Robots Using Custom-Made Tools by a Semi-Direct Method. Journal of Robotics and Mechatronics, 2016, 28, 242-254.	0.5	2
214	An Analysis of the Cognitive Processes Related to â€œService Awarenessâ€•of Cabin Attendants. Lecture Notes in Computer Science, 2017, , 91-100.	1.0	2
215	Automated inference of cognitive performance by fusing multimodal information acquired by smartphone. , 2019, , .		2
216	A Neural Controller Model Considering the Vestibulospinal Tract in Human Postural Control. Frontiers in Computational Neuroscience, 2022, 16, 785099.	1.2	2

#	Article	IF	Citations
217	Multiple camera image interface for assisting in the control of mobile robots. Advanced Robotics, 2005, 19, 39-53.	1.1	1
218	AGV System Design using Competitive and Cooperative Co-evolution. , 2006, , .		1
219	Online Rescheduling in Semiconductor Manufacturing. , 2006, , .		1
220	Position management system for an indoor group of forklifts with a sensor network. , 2007, , .		1
221	Performance Design of Operating Robots in a Seaport Container-Handling System. , 2007, , .		1
222	Grasp strategy when experiencing hands of various size. , 2007, , .		1
223	Efficient dispatching algorithm or transfer crane in harbor physical distribution considering inland carriage. , 2008, , .		1
224	Integrated operational techniques for efficient robotic batch manufacturing systems. , 2009, , .		1
225	Dynamic deployment rule of transfer cranes in container terminal. , 2009, , .		1
226	Improvement of Efficiency of Transportation in Harbor Physical Distribution Considering Inland Carriage. Journal of Mechanical Systems for Transportation and Logistics, 2009, 2, 145-156.	0.2	1
227	Dynamic Role-assignment of Transfer Cranes in a Container Terminal. Journal of Mechanical Systems for Transportation and Logistics, 2010, 3, 457-468.	0.2	1
228	Mixed-Load Transportation Scheduling of Multiple Agents in a Warehouse Environment. Advanced Robotics, 2011, 25, 1557-1576.	1.1	1
229	Handling of a large irregularly shaped object by two mobile robots. , 2011, , .		1
230	Multi-robot manipulation and maintenance for fault-tolerant systems. , 2011, , .		1
231	Manipulator system selection based on evaluation of task completion time and cost. , 2011, , .		1
232	Supporting system for self training of bed-making using image processing with color and distance information. , 2012, , .		1
233	Transportation of a large object by small mobile robots using hand carts. , 2012, , .		1
234	Teaching-playback robot manipulator system in consideration of singularities. , 2013, , .		1

#	Article	IF	Citations
235	Simulation-Based Simple and Robust Rule Generation for Motion Coordination of Multi-agent System. , 2013, , .		1
236	Task apportionment in a rearrangement problem of multiple mobile robots. Advanced Robotics, 2013, 27, 93-107.	1.1	1
237	Companion context dependent topic modeling. , 2014, , .		1
238	Automatic face tracking system using quadrotors: Control by goal position thresholding. , 2014, , .		1
239	Transportation of a large object by small mobile robots with handcarts and outrigger. , 2014, , .		1
240	Realization method for a rearrangement task by multiple mobile robots in consideration of map errors. ROBOMECH Journal, 2014, 1, .	0.9	1
241	Location based video navigation using task extracted from the web. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2014, 18, 43-54.	0.7	1
242	Generation of biped stance motion in consideration of neurological time delay through forward dynamics simulation. , 2015, , .		1
243	Foreground segmentation with efficient selection from ICP outliers in 3D scene. , 2015, , .		1
244	Modeling method in embodied-brain systems science. , 2015, , .		1
245	Climate condition that mostly affects the change of tweet content. , 2015, , .		1
246	Automated design of the field-of-view, illumination, and image pre-processing parameters of an image recognition system. , 2017, , .		1
247	Non-invasive estimation method for lumbar spinal motion using flat belts and wires. , 2017, , .		1
248	Proprioceptive postural control of a musculoskeletal model against horizontal disturbances. , 2017, , .		1
249	Fast Buffer Size Design of Production Lines for Meeting the Desired Throughput. , 2018, , .		1
250	Collision-Based Contact Mode Estimation for Dynamic Rigid Body Capture. , 2018, , .		1
251	Least Action Sequence Determination in the Planning of Non-prehensile Manipulation with Multiple Mobile Robots. Advances in Intelligent Systems and Computing, 2019, , 174-185.	0.5	1
252	Development of a robotic finger with a branching tendon mechanism and sensing based on the moment-equivalent point. Robotics and Autonomous Systems, 2020, 129, 103538.	3.0	1

#	Article	IF	Citations
253	The Effects of the Robot Patientâ€™s Patient-Likeness on Nursing Students. Lecture Notes in Computer Science, 2017, , 457-465.	1.0	1
254	Manipulator system selection based on evaluation of task completion time and cost. , 2011, , .		1
255	Flow Path Network Design for Robust AGV Systems Against Tasks Using Competitive Coevolution. Journal of Robotics and Mechatronics, 2010, 22, 475-484.	0.5	1
256	Estimation of Evaluation Function for Generating Upper Limb Posture during Task Execution. Journal of the Japan Society for Precision Engineering, 2008, 74, 1335-1340.	0.0	1
257	New research trends in artifactology. Synthesiology, 2015, 7, 200-209.	0.2	1
258	Region Exploration Planning for a Mobile Robot Using Reaction-Diffusion Equation on a Graph. Transactions of the Society of Instrument and Control Engineers, 2002, 38, 996-1002.	0.1	1
259	Design of Transporter Routing with Parameterization of Information in Consideration of Planning Time for AGV Systems. Transactions of the Society of Instrument and Control Engineers, 2005, 41, 343-350.	0.1	1
260	Autonomous Distributed Control of Traffic Signals with Cycle Length Control. Transactions of the Society of Instrument and Control Engineers, 2003, 39, 767-776.	0.1	1
261	Control Methodology of Transfer Crane with Look-Ahead Rule in Harbor Transportation System. , 2009, , 513-522.		1
262	Iterative Transportation by Multiple Mobile Robots Considering Unknown Obstacles. Journal of Robotics and Mechatronics, 2009, 21, 44-56.	0.5	1
263	Development of Deskwork Support System Using Pointing Gesture Interface. Journal of Robotics and Mechatronics, 2010, 22, 430-438.	0.5	1
264	Attentive Deskwork Support System. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2010, 14, 758-769.	0.5	1
265	Motion Planning of Robot Groups in Consideration of Tasks of the Groups.. Journal of the Robotics Society of Japan, 1995, 13, 517-524.	0.0	1
266	A method for solving multiple autonomous robots collisions problem using space and time representation. Lecture Notes in Computer Science, 1995, , 261-266.	1.0	1
267	Emergence and Evolution in Robotics. Multi-agent Robotic Systems and Emergence.. Journal of the Robotics Society of Japan, 1997, 15, 693-697.	0.0	1
268	Refining Two Robots Task Execution Through Tuning Behavior Trajectory and Balancing the Communication. Journal of Robotics and Mechatronics, 2018, 30, 613-623.	0.5	1
269	Optimal maintenance strategy in fault-tolerant multi-robot systems. , 2011, , .		1
270	Relationship between nursing students' preference for types of teaching materials and learning effects of self-learning tool. Studies in Health Technology and Informatics, 2014, 201, 39-47.	0.2	1

#	Article	IF	Citations
271	Passive Way of Measuring QOL/Well-Being Levels Using Smartphone Log. Frontiers in Digital Health, 2022, 4, 780566.	1.5	1
272	Development of a Learning Factory Based on â€˜Digital Tripletâ€™ Concept. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2021, 2021.10, 189-183.	0.0	1
273	Throughput evaluation of AGV transportation systems based on queueing modeling and AGV route decomposition. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 0, , 095440542211119.	1.5	1
274	Acquisition of global information from local observation with movement - construction of internal state-representation under partial observabability. , 0, , .		0
275	A High Speed and Precise Method for Measuring Position and Orientation of Point Features.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1997, 63, 1640-1648.	0.2	0
276	Regrasp in Transportation of a Large Object by Cooperation of Multiple Mobile Robots.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1997, 63, 174-181.	0.2	0
277	An Evaluation Method of Local Communication System in Many Mobile Robots. Performance Comparison with Global Communication.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1998, 64, 966-971.	0.2	0
278	Development of a System for Multiple Mobile Robots Controlled by a Human.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 1999, 65, 4062-4069.	0.2	0
279	Rule-based Cooperative Transportation by Quadruped Robots.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2000, 66, 1589-1596.	0.2	0
280	Path Learning by Robot Group in Unknown Environment.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2000, 66, 522-529.	0.2	0
281	Development of Gesture-Based Interface for Deskwork Support System. , 2006, , .		0
282	Estimation of user’s intention inherent in the movements of hand and eyes for the deskwork support system. , 2007, , .		0
283	The Solution of 2-Dimensional Rectangular Cutting Stock Problem Considering Cutting Process. , 2007, , .		0
284	Reactive robot control with hybrid operational models in a seaport container terminal considering system reliability. , 2008, , .		0
285	LOW-COST AND ROBUST POSITIONING SYSTEM FOR INDOOR GROUP OF FORKLIFTS UTILIZING PROBABILITY ESTIMATION AND SENSOR NETWORK. International Journal of Information Acquisition, 2008, 05, 163-179.	0.2	0
286	Attentive object feeding for supporting deskwork. , 2008, , .		0
287	Analysis of daily nursing care: a nursing care scheduling algorithm. , 2008, , .		0
288	Intelligent Cruise Control of Circulating Multi-Robot Effective for Congestion(<Special) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (Is Society of Mechanical Engineers, Part C, 2010, 76, 2387-2395.	0.2	0

#	Article	IF	Citations
289	Exploration in a boundary environment with unknown obstacles using Reaction-Diffusion equation on a graph. , 2011, , .		0
290	The concept of mobiligence and its future. , 2012, , .		0
291	Multi-Level and Multi-Objective Design Methodology of Taxiways for Large Airports. Journal of Mechanical Systems for Transportation and Logistics, 2012, 6, 1-14.	0.2	0
292	Experimental Analysis of Cooperative Behavior of Autonomous Mobile Robots against Congestion. Journal of Mechanical Systems for Transportation and Logistics, 2012, 5, 58-70.	0.2	0
293	Cooperative rhythm production between three people through auditory signals. , 2012, , .		0
294	Stance control model in consideration of feed-forward control by reticulospinal tract. , 2013, , .		0
295	Tri-layer-cluster Generation Model for Activity Prediction. , 2013, , .		0
296	Simultaneous design of image conversion parameters and classifier in object recognition for a picking task. , 2014, , .		0
297	Estimation of user's activity from tweets through tri-layer clustering model. , 2014, , .		0
298	Destination prediction considering both tweet contents and location transition hitstory. , 2014, , .		0
299	Support for describing service delivery processes using collection of structure patterns of process. Transactions of the JSME (in Japanese), 2014, 80, DSM0336-DSM0336.	0.1	0
300	Teaching multiple robots by a human — Teaching data generation. , 2014, , .		0
301	Exploratory activity search. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2015, 19, 15-25.	0.7	0
302	Notice of Removal Proposal of a neural controller able to compensate neurological time delay for stance postural control. , 2015, , .		0
303	IR based Task-Model Learning: Automating the hierarchical structuring of tasks. Web Intelligence, 2016, 14, 31-41.	0.1	0
304	Teaching multiple robots by a human. , 2016, , .		0
305	Locking mechanism based on flat, overlapping belt, and ultrasonic vibration. , 2016, , .		0
306	A model for the initial diagnosis of cerebellar disease. Advanced Robotics, 2017, 31, 143-154.	1.1	0

#	Article	IF	Citations
307	Multisensory alterations in visual, vestibular and proprioceptive cues for modeling of postural control. , 2017, , .		0
308	Development of a Mobile Robot Capable of Tilting Heavy Objects and its Safe Placement with Respect to Target Objects. , 2018, , .		0
309	Analyzing the Relationship between Cognitive Performance and Time to Find Intended Mobile App. , 2018, , .		0
310	Musculoskeletal simulations to investigate influences of muscle weakness and sensory noise to postural control with high stiffness. , 2018, , .		0
311	Muscle Activation Patterns Estimation during Repeated Wrist Movements from MRI and sEMG*. , 2020, , .		0
312	Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network. IEEE Internet of Things Journal, 2021, , 1-1.	5.5	0
313	Effects of medication and dual tasking on postural sway in Parkinsonâ€™s disease: A pilot case study. Advanced Robotics, 2021, 35, 889-897.	1.1	0
314	Locational Planning and Observation Planning of Artificial Landmarks for AGV navigation using Two Cameras.. Journal of the Japan Society for Precision Engineering, 2002, 68, 1600-1604.	0.0	0
315	Visual and Force Information Display System for Mobile Robot Group Control.. Journal of the Robotics Society of Japan, 2003, 21, 185-193.	0.0	0
316	Design of Fleet Size and Bi-directional Flow Path Network for AGV Systems. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 102-108.	0.1	0
317	Effective Adaptation to Experience of Different-Sized Hand. Lecture Notes in Computer Science, 2009, , 1002-1010.	1.0	0
318	Design of an Automated Container-Handling System in a Seaport Terminal Considering Operating Machine Performance. International Journal of Automation Technology, 2009, 3, 610-619.	0.5	0
319	Integrated Operational Techniques for Robotic Batch Manufacturing Systems. , 2010, , 265-278.		0
320	Role of Pre-Operation in Experiencing Differently Sized Hands. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2010, 14, 793-801.	0.5	0
321	Methodology for Solving Congestion Formed by Multiple Mobile Robots -Development of Intelligent Cruise Control Technique and Behavior Rule-. Journal of the Robotics Society of Japan, 2011, 29, 726-736.	0.0	0
322	A Compressed Annealing Approach with Pre-Process for the Asymmetric Traveling Salesman Problem with Time Windows. International Journal of Automation Technology, 2011, 5, 669-678.	0.5	0
323	Long-Term Goal Discovery in the Twitter Posts through the Word-Pair LDA Model. Lecture Notes in Computer Science, 2012, , 262-267.	1.0	0
324	Coordination of Multiple Mobile Robots based on Adaptive Cruise Control. Journal of the Robotics Society of Japan, 2012, 30, 788-796.	0.0	0

#	Article	IF	Citations
325	2315 Architecture Construction of Tourist Attractions. The Proceedings of Design & Systems Conference, 2013, 2013.23, _2315-1_-_2315-4_.	0.0	0
326	Development of a Measurement and Evaluation System for Bed-Making Activity for Self-training. Lecture Notes in Computer Science, 2013, , 268-275.	1.0	0
327	A Study on Local Communication of Multiple Mobile Robot System.. Journal of the Robotics Society of Japan, 1994, 12, 886-892.	0.0	0
328	Research Map of Robotics. Study on Asymptotic Strategy-Making in Multiple Autonomous Robot System.. Journal of the Robotics Society of Japan, 1996, 14, 379-385.	0.0	0
329	Design of the Optimal Arrangement of Artificial Landmarks.. Journal of the Robotics Society of Japan, 1996, 14, 896-902.	0.0	0
330	Evaluation of Taxiing at a Large Airport Considering Customer Satisfaction. , 2016, , 67-78.		0
331	Robot Patient Imitating Paralysis Patients for Nursing Students to Learn Patient Transfer Skill. Advances in Intelligent Systems and Computing, 2017, , 549-560.	0.5	0
332	Overview of Embodied-brain Systems Science. Journal of the Robotics Society of Japan, 2017, 35, 498-499.	0.0	0
333	Generation of 2.5D Map for Mobile Robots on Indoor Floor with Non-Horizontal Partial Areas. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 732-744.	0.1	0
334	Objective Functions of Principal Contact Estimation from Motion Based on the Geometrical Singular Condition. , 2020, , .		0
335	Managing execution variants in task coordination by exploiting design-time models at run-time. , 2011, , .		0
336	Optimal gait switching for legged locomotion. , 2011, , .		0